FIG. 1 (1/8)

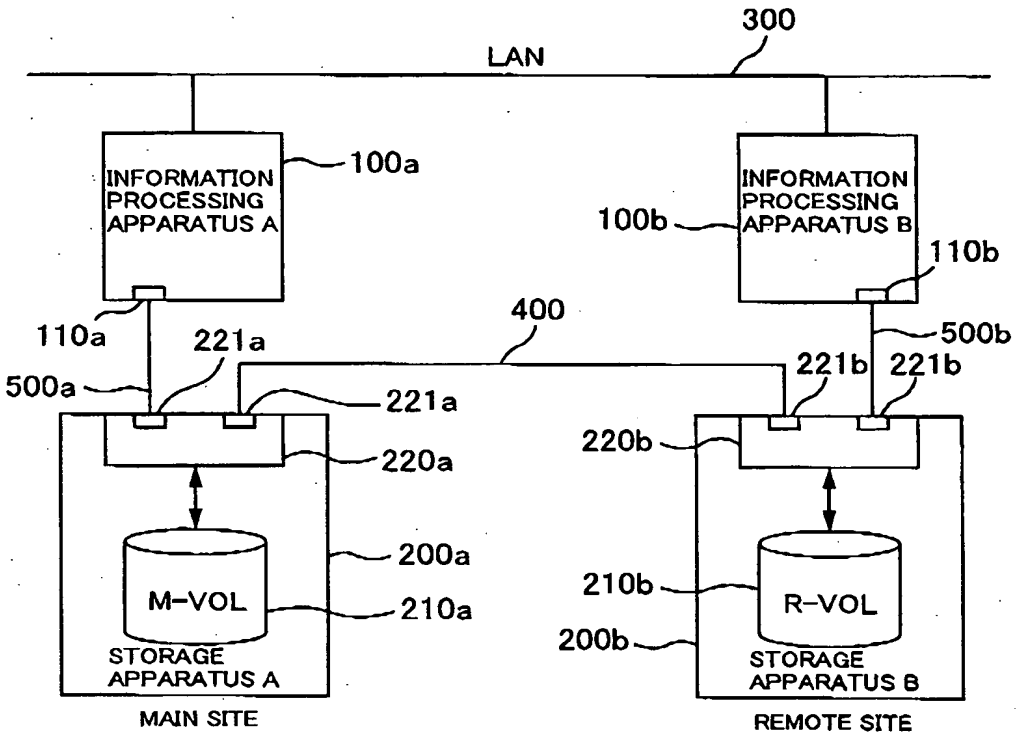

300
LAN
INFORMATION PROCESSING APPARATUS A
100a
INFORMATION PROCESSING APPARATUS B
100b
110b
110a
400
500b
221a
221b
221b
500a
221a
220b
220a
200a
M-VOL
210a
210b
R-VOL
200b
STORAGE APPARATUS A
STORAGE APPARATUS B
MAIN SITE
REMOTE SITE

FIG. 2

(2/8)

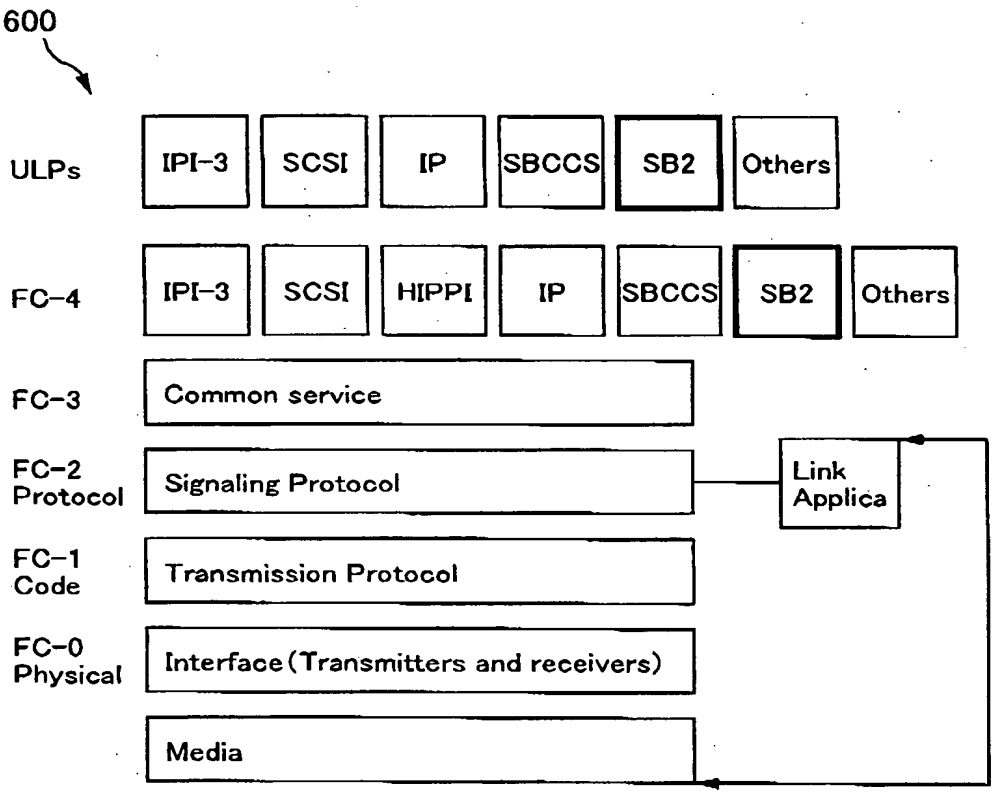

600
ULPs
IPI-3
SCSI
IP
SBCCS
SB2
Others
FC-4
IPI-3
SCSI
HIPPI
IP
SBCCS
SB2
Others
FC-3
Common service
FC-2
Protocol
Signaling Protocol
Link
Applica
FC-1
Code
Transmission Protocol
FC-0
Physical
Interface (Transmitters and receivers)
Media

FIG. 3 (3/8)

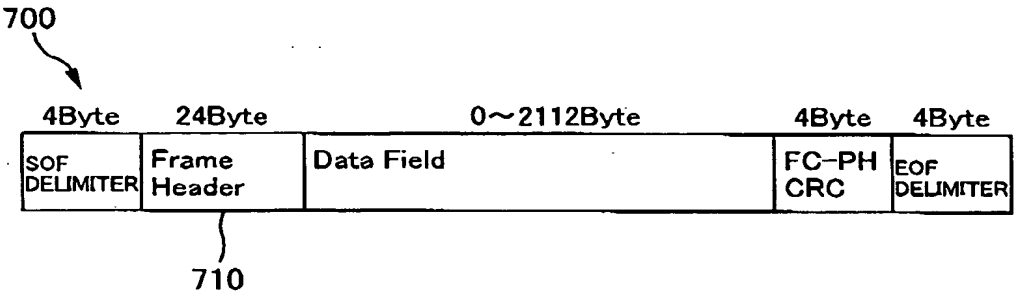

700
4Byte
24Byte
0~2112Byte
4Byte
4Byte
SOF DELIMITER
Frame Header
Data Field
FC-PH CRC
EOF DELIMITER
710

FIG. 4

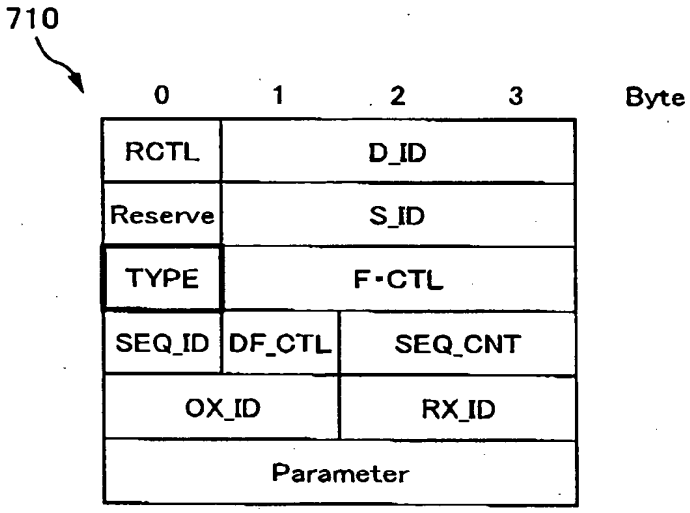

710
0
1
2
3
Byte
RCTL
D_ID
Reserve
S_ID
TYPE
F-CTL
SEQ_ID
DF_CTL
SEQ_CNT
OX_ID
RX_ID
Parameter

FIG.5 (4/8)

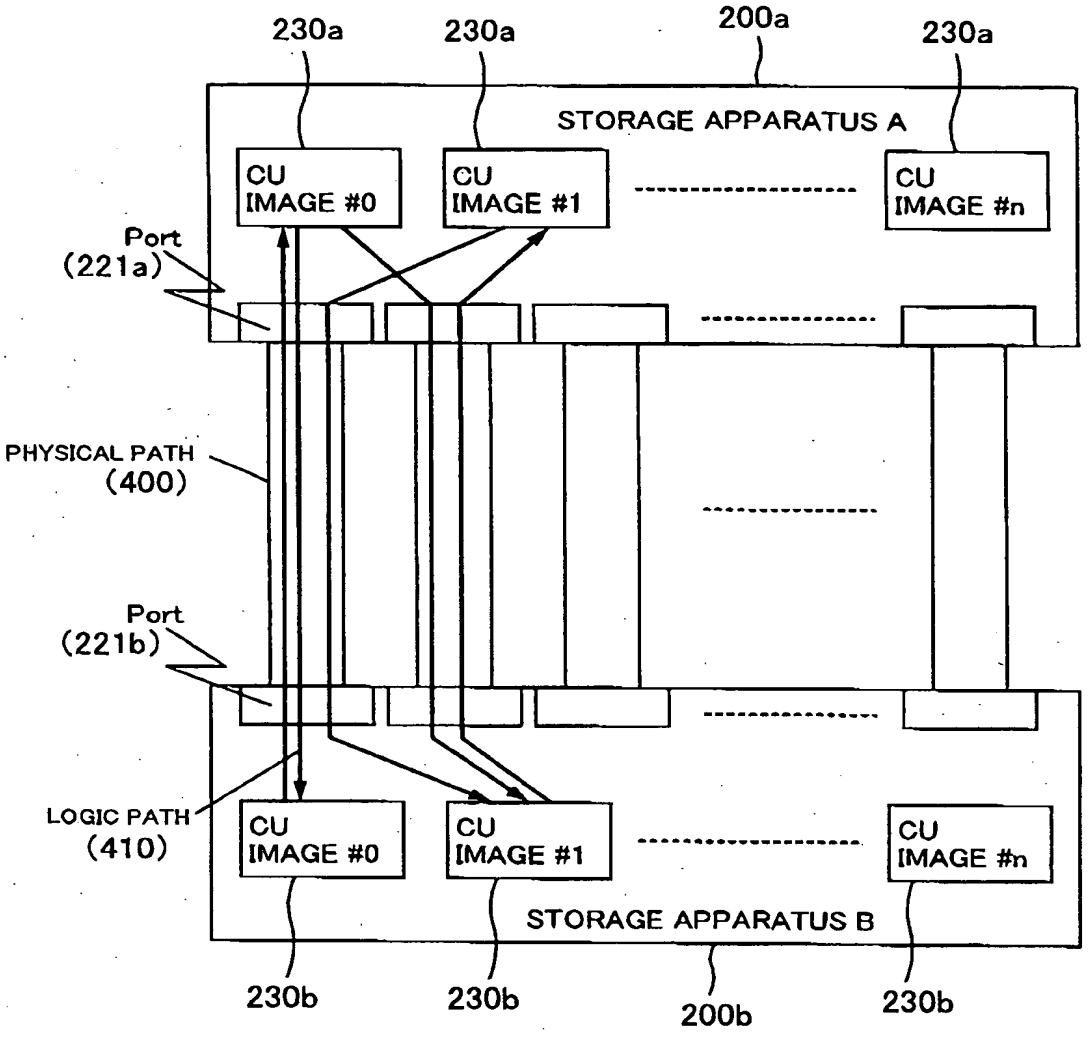

230a
230a
200a
230a
STORAGE APPARATUS A
CU IMAGE #0
CU IMAGE #1
CU IMAGE #n
Port (221a)
PHYSICAL PATH (400)
Port (221b)
LOGIC PATH (410)
CU IMAGE #0
CU IMAGE #1
CU IMAGE #n
STORAGE APPARATUS B
230b
230b
200b
230b

FIG. 6

(5/8)

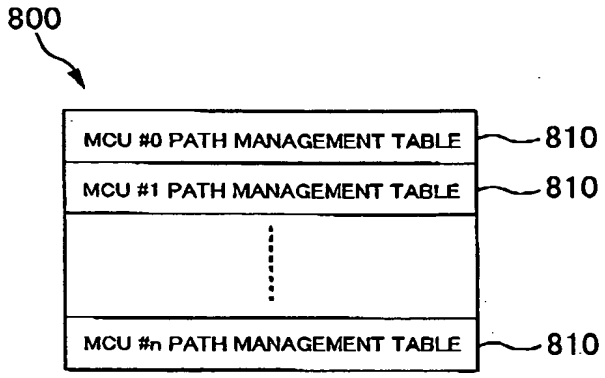
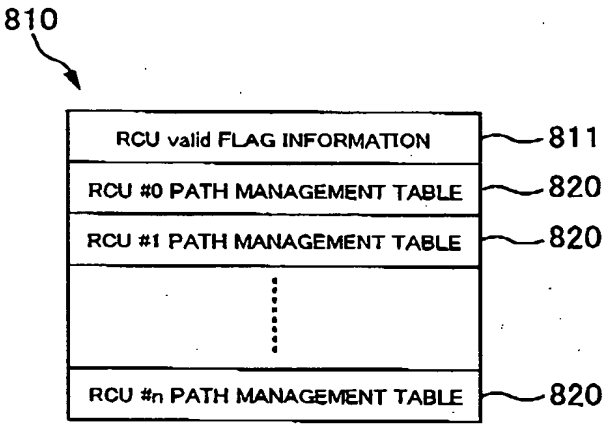

800
MCU #0 PATH MANAGEMENT TABLE
810
MCU #1 PATH MANAGEMENT TABLE
810
MCU #n PATH MANAGEMENT TABLE
810

FIG. 7


810
RCU valid FLAG INFORMATION
811
RCU #0 PATH MANAGEMENT TABLE
820
RCU #1 PATH MANAGEMENT TABLE
820
RCU #n PATH MANAGEMENT TABLE
820

(6/8)

FIG. 8

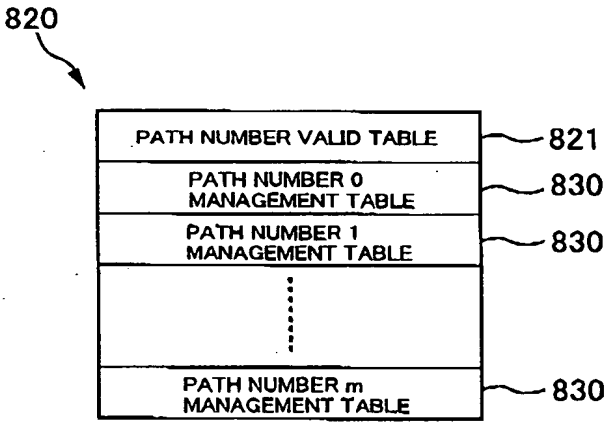

820
PATH NUMBER VALID TABLE
821
PATH NUMBER 0 MANAGEMENT TABLE
830
PATH NUMBER 1 MANAGEMENT TABLE
830
PATH NUMBER m MANAGEMENT TABLE
830

FIG. 9

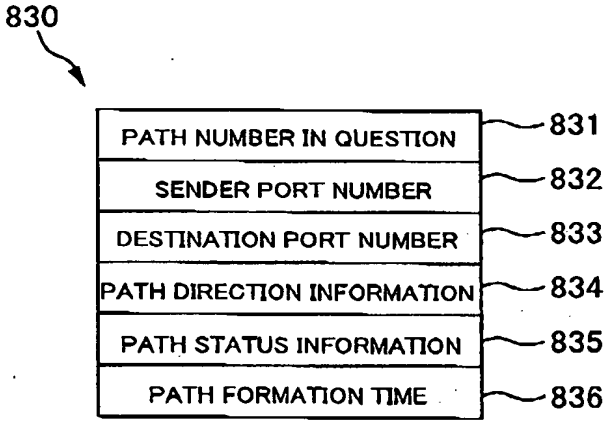

830
PATH NUMBER IN QUESTION
831
SENDER PORT NUMBER
832
DESTINATION PORT NUMBER
833
PATH DIRECTION INFORMATION
834
PATH STATUS INFORMATION
835
PATH FORMATION TIME
836

FIG. 10

(7/8)

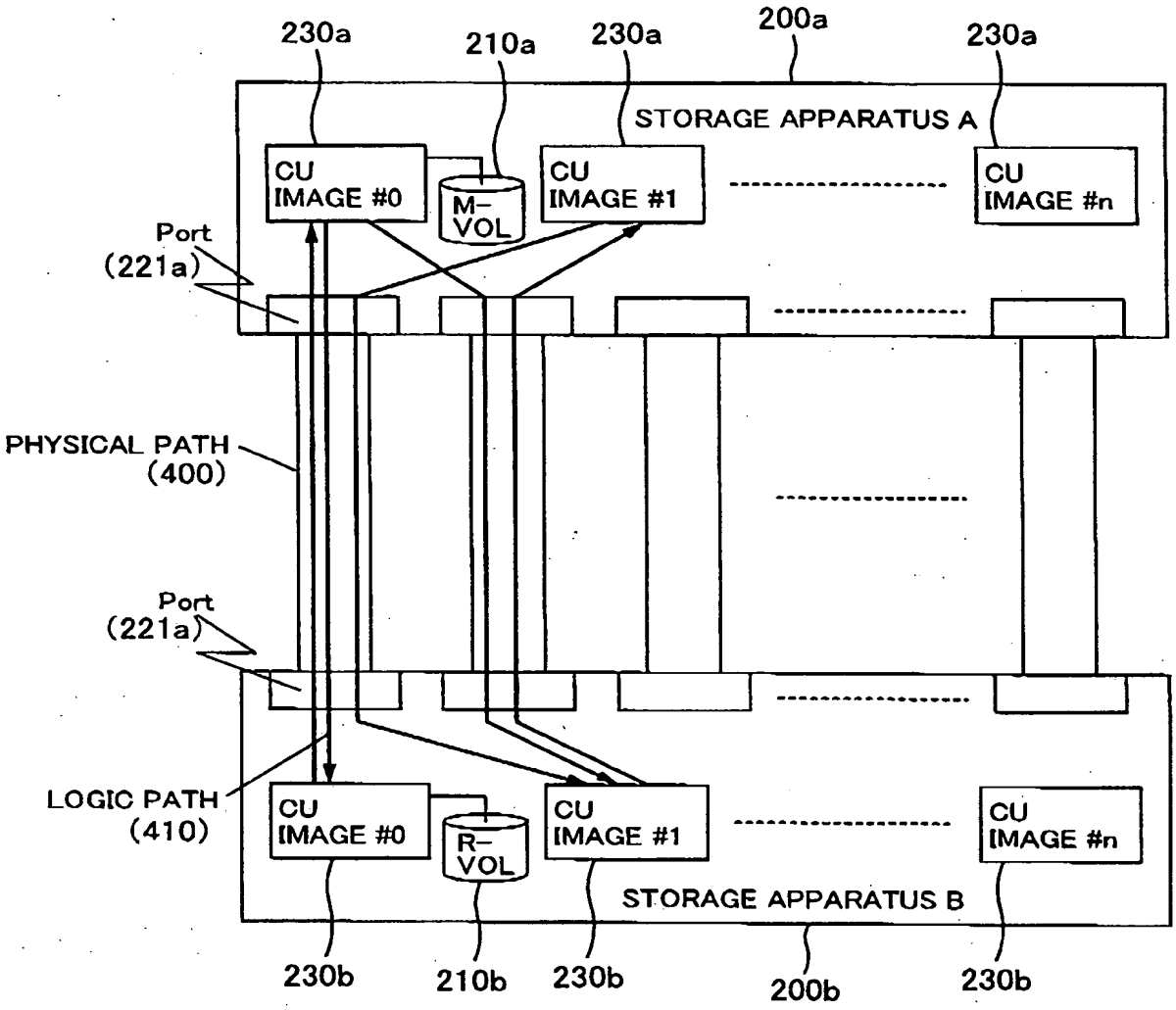

230a
210a
230a
200a
230a
STORAGE APPARATUS A
CU IMAGE #0
M-VOL
CU IMAGE #1
CU IMAGE #n
Port (221a)
PHYSICAL PATH (400)
Port (221a)
LOGIC PATH (410)
CU IMAGE #0
R-VOL
CU IMAGE #1
CU IMAGE #n
STORAGE APPARATUS B
230b
210b
230b
200b
230b

FIG. 11

(8/8)

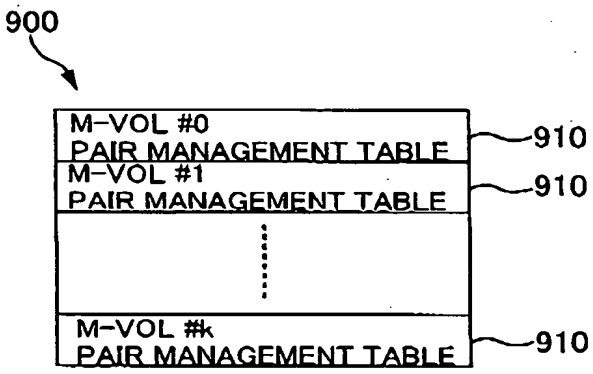
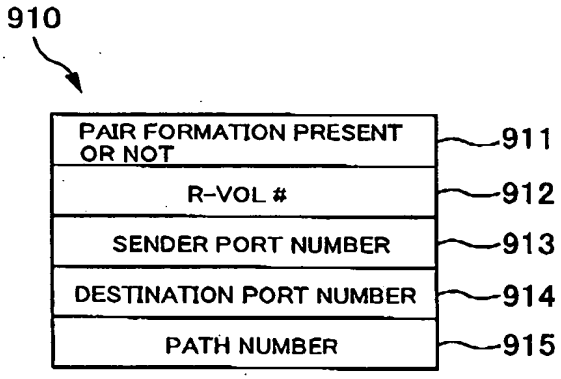



FIG. 12